

Table 12. Domestic sales and domestic R&D performed by the company as a percentage of domestic sales, by selected industry and company size, for companies with 1–9 employees: 2023

(Thousands of U.S. dollars and percent)

Industry	NAICS code	All companies				1–4 employees				5–9 employees			
		Total sales (\$thousands)		R&D as percentage of sales		Total sales (\$thousands)		R&D as percentage of sales		Total sales (\$thousands)		R&D as percentage of sales	
All selected industries	31–33, 42, 51, 5413, 5415, 5417	18,899,461		31		8,307,320		34		10,592,141		30	
Manufacturing industries	31–33	2,776,981		20		893,502		24		1,883,480		18	
Food, beverage, and tobacco products	311–12	50,522		11	r	7,356		7		43,166		11	r
Textile, apparel, and leather products	313–16	176,215	r	3	r	5,606		2		170,610	r	3	r
Wood products	321	53,749	r	19		45,578	r	21	r	8,171	r	10	r
Paper	322	0		0		0		0		0		0	
Printing and related support activities	323	3,604		3		3,604		3		0		0	
Petroleum and coal products	324	0		0		0		0		0		0	
Chemicals	325	476,096		36	r	136,420		25		339,676		40	r
Pharmaceuticals and medicines	3254	141,178		30	r	33,340		31	r	107,838		30	r
Chemicals, excluding pharmaceuticals	other 325	334,918		38	r	103,080		23	r	231,838		45	r
Plastics and rubber products	326	113,392	r	18	r	7,286	r	11	r	106,106	r	19	r
Nonmetallic mineral products	327	42,101		10	r	22,490		9	r	19,611	r	10	r
Primary metals	331	15,171		6		2,082		21		13,089		3	r
Fabricated metal products	332	77,110	r	8		0		0		77,110	r	8	
Machinery	333	463,585		8		71,384	r	17	r	392,201		7	r
Computer and electronic products	334	850,270		25		408,036		27		442,234		24	
Semiconductor and other electronic components	3344	155,706		38	r	75,046		48	r	80,660		28	r
Navigational, measuring, electromedical, and control instruments	3345	482,704		26		267,563	r	25		215,141		28	r
Other computer and electronic products	other 334	211,860		14		65,428	r	13	r	146,432		15	r
Electrical equipment, appliances, and components	335	137,263		12		65,977		10	r	71,286		15	r
Transportation equipment	336	99,722		14	r	7,546		54	r	92,176		11	
Aerospace products and parts	3364	12,752		43	r	7,546		54	r	5,205		27	r
Other transportation equipment	other 336	86,971		10		0		0		86,971		10	
Furniture and related products	337	4,280		7		0		0		4,280		7	
Miscellaneous manufacturing	339	213,901		21		110,136		30		103,765		12	
Selected nonmanufacturing industries	42, 51, 5413, 5415, 5417	16,122,480		33		7,413,818		35		8,708,661		32	
Wholesale trade	42	2,760,065		6		806,684		10	r	1,953,381		5	
Information	51	2,833,995		32		1,354,752		27		1,479,243		37	
Software publishers	5112	2,122,476		35		1,003,686		31	r	1,118,790		39	
Information, excluding software publishers	51 less 5112	711,519		23	r	351,066		16	r	360,453		31	r
Architectural, engineering, and related services	5413	2,316,117		26		1,039,855		28		1,276,262		24	r
Computer systems design and related services	5415	5,808,894		27		3,106,061		27		2,702,833		27	
Scientific research and development services	5417	2,403,409		89		1,106,466		92		1,296,943		87	
Research and development in nanotechnology	541713	139,727		69		70,265		83		69,461		55	
Research and development in biotechnology (except nanobiotechnology)	541714	942,139		94		383,219		105		558,920		86	r

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Research and development in the physical, engineering, and life sciences (except nanotechnology and biotechnology)	541715	1,306,438		88		647,933		85		658,505		92	
Social sciences and humanities research and development	541720	15,104		82		5,048	r	75	r	10,056	r	85	

r = relative standard error > 50%.

NAICS = 2022 North American Industry Classification System.

Note(s):
Detail may not add to total because of rounding or unavailable NAICS detail for select records beyond the 4-digit industry classification. Industry classification is based on dominant establishment payroll. Statistics are representative of companies located in the United States that performed or funded R&D.

Source(s):
National Center for Science and Engineering Statistics and Census Bureau, 2024 Annual Business Survey: Data Year 2023.